









PROTON-CONDUCTIVE POLYMER FILM AND PROCESS FOR PRODUCING THE SAME

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Abstract of WO02062896

A proton-conductive polymer film made of a polymer comprising repeating structural units represented by the following general formula (1) in which the aromatic units have been partly substituted with proton-conductive substituents, the film having a solubility in methanol at room temperature of less than 0.01 wt.% or having a solubility in N-methyl-2-pyrrolidone at 5 DEG C of less than 5 wt.%. In the formula, Ar1 is a divalent aromatic unit and x is an integer of 0 to 2. Also provided is a process by which a proton-conductive polymer film having properties making the film usable in solid polymer electrolyte fuel cells is obtained in a simple manner which attains a substantial reduction in production cost.

